INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/003864

Α.	CLASSIFIC Int.Cl7	ATION OF SUBJECT MATTER C23C14/34, B23K20/12				
4,						
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ C23C14/34, B23K20/12						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Jitsuyo Shinan Koho 1922—1996 Toroku Jitsuyo Shinan Koho 1994—2004 Kokai Jitsuyo Shinan Koho 1971—2004 Jitsuyo Shinan Toroku Koho 1996—2004						
Elec	tronic data b	ase consulted during the international search (name of desCIENCE DIRECT	ata base and, where practicable, search ter	ms used)		
C.	DOCUMEN	TS CONSIDERED TO BE RELEVANT.				
Ca	ategory*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.		
	Х	JP 07-062528 A (Toshiba Corp.	.),	1-6 1-11		
	Y	07 March, 1995 (07.03.95), Claims		±		
		(Family: none)				
	Y.	JP 11-061393 A (Tanaka Kikinz	zoku Kogyo · .	1-11		
		Kabushiki Kaisha), 05 March, 1999 (05.03.99),		•		
		Claims .				
		(Family: none)				
	Y	JP 04-333565 A (Mitsubishi Ma	aterials Corp.),	1-11		
		20 November, 1992 (20.11.92), Claims				
		(Family: none)				
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×	Further do	cuments are listed in the continuation of Box C.	See patent family annex.	·		
* "A"	the state of the general state of the art which is not considered date and not in conflict with		"T" later document published after the inte date and not in conflict with the applic the principle or theory underlying the i	ation but cited to understand		
"E"	earlier applie	icular relevance cation or patent but published on or after the international	"X" document of particular relevance; the considered novel or cannot be consi	claimed invention cannot be		
"L"	filing date document w	hich may throw doubts on priority claim(s) or which is	step when the document is taken alone			
	special reaso	ablish the publication date of another citation or other on (as specified)	"Y" document of particular relevance; the considered to involve an inventive combined with one or more other such	step when the document is		
"O" "P"	document pu	ferring to an oral disclosure, use, exhibition or other means ablished prior to the international filing date but later than	being obvious to a person skilled in the	e art		
	the priority		"&" document member of the same patent	rainiy		
Date		l completion of the international search	Date of mailing of the international search report 22 June, 2004 (22.06.04)			
	U2 June	e, 2004 (02.06.04)	22 June, 2004 (22.0	00.04 <i>)</i>		
Name and mailing address of the ISA/ Authorized officer						
		se Patent Office				
r			Telephone No			

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PCT/JP2004/003864

). DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category	JP 11-010363 A (Sumitomo Light Metal Industries,	1-11
Y	Ltd.), 19 January, 1999 (19.01.99), Par. No. [0006] (Family: none)	
Y	JP 2003-025078 A (Dowa Mining Co., Ltd.), 28 January, 2003 (28.01.03), Full text (Family: none)	9
Y	JP 11-315373 A (Kobe Steel, Ltd.), 16 November, 1999 (16.11.99), Claims	10
A	JP 09-508073 A (The Welding Institute), 19 August, 1997 (19.08.97), Full text & EP 752926 B1 & US 5813592 A	1-11
Α .	JP 07-505090 A (The Welding Institute), 08 June, 1995 (08.06.95), Full text & EP 615480 B1 & US 5460317 A	1-11
A .	JP 2002-248584 A (Hitachi, Ltd.), 03 September, 2002 (03.09.02), Full text (Family: none)	1-11
А	G.LIU. et al., Microstructural aspects of the frictionstir welding of 6061-T6 aluminum, SCRIPTA MATERIALIA, 1997, Vol.37, No.3, pages 355 to 361	1-11
A	C.G. RHODES, et al., Effects of friction stir welding on microstructure of 7075 aluminum, SCRIPTA MATERIALIA, 1997, Vol.36, No.1, pages 69 to 75	1-11
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